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Sep 9, 1985

PUB-NO: JP360174726A  
DOCUMENT-IDENTIFIER: JP 60174726 A  
TITLE: PHARMACEUTICAL COMPOSITION FOR INJECTION

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## INVENTOR-INFORMATION:

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US-CL-CURRENT: 514/3

INT-CL (IPC): A61K 37/26; A61K 9/08; A61K 37/12

## ABSTRACT:

PURPOSE: To provide the titled composition effective to suppress the decomposition of the injected peptide hormone in high efficiency, to promote the drug activity, and to mitigate the gain of the patient caused by the continuous administration, by adding a collagen derivative to a peptide hormone such as insulin.

CONSTITUTION: A peptide hormone, especially insulin, is incorporated with a collagen derivative, especially atherocollagen, to obtain the objective pharmaceutical composition for injection. Insulin useful as a remedy for diabetes decomposes extremely rapidly under the skin and in blood. It has been found that collagenase plays the role of the lyase of insulin, and that the simultaneous administration of collagen which is a protein sensitive to collagenase, preferably atherocollagen having no species specificity, is effective to suppress the decomposition of insulin and to promote the drug action. The present invention can be applied to other peptide drug preparation (e.g. calcitonin, secretin, etc.).

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USPT,PGPB,JPAB,EPAB,DWPI	5766629.pn. and (particle adj1 size)	0	<u>L23</u>
USPT,PGPB,JPAB,EPAB,DWPI	116 and (dosage adj1 formulation\$)	31	<u>L22</u>
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USPT,PGPB,JPAB,EPAB,DWPI	119 and (cyclosporin\$ or insulin or acyclovir or camptothecin)	59	<a href="#">L20</a>
USPT,PGPB,JPAB,EPAB,DWPI	118 and (microemulsion)	254	<a href="#">L19</a>
USPT,PGPB,JPAB,EPAB,DWPI	117 and (injection or oral)	722	<a href="#">L18</a>
USPT,PGPB,JPAB,EPAB,DWPI	116 and (antifungal or antiviral or insulin or hormones)	741	<a href="#">L17</a>
USPT,PGPB,JPAB,EPAB,DWPI	(ethyl adj1 oleate) and (phospholipids or lecithin) and (ethanol)	1265	<a href="#">L16</a>
USPT,PGPB,JPAB,EPAB,DWPI	4568343.pn.	3	<a href="#">L15</a>
USPT,PGPB,JPAB,EPAB,DWPI	113 and (mm or micrometers)	196	<a href="#">L14</a>
USPT,PGPB,JPAB,EPAB,DWPI	112 and (microemulsion)	245	<a href="#">L13</a>
USPT,PGPB,JPAB,EPAB,DWPI	12 and (pharmaceutical)	432	<a href="#">L12</a>
USPT,PGPB,JPAB,EPAB,DWPI	19 and (particle adj1 size)	401	<a href="#">L11</a>
USPT,PGPB,JPAB,EPAB,DWPI	19 and (micrometers)	48	<a href="#">L10</a>
USPT,PGPB,JPAB,EPAB,DWPI	16 and (antifungal or antiviral or insulin or hormones)	404	<a href="#">L9</a>
USPT,PGPB,JPAB,EPAB,DWPI	17 and (micron\$ or micrometer\$)	31	<a href="#">L8</a>
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USPT,PGPB,JPAB,EPAB,DWPI	12 and ((self adj1 emulsify\$) or emulsion or (emulsify\$))	432	<a href="#">L4</a>
USPT,PGPB,JPAB,EPAB,DWPI	12 and (self adj1 emulsify\$)	0	<a href="#">L3</a>
USPT,PGPB,JPAB,EPAB,DWPI	(ethyl adj1 oleate) same (phospholipids or lecithin) same (ethanol)	436	<a href="#">L2</a>
USPT,PGPB,JPAB,EPAB,DWPI	(ehtyl adj1 oleate) same (phospholipids or lecithin) same (ethanol)	0	<a href="#">L1</a>